



Practitioner's Docket No. 12372.113 (GDC-136)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Gymer, David; Burden, Paul

Application No.: 09/806,783

Group No.: 2171

Filed: 29 September 1999

Examiner: Not yet known

For: NETWORK MANAGEMENT INFORMATION PROCESSING

Assistant Commissioner for Patents  
Washington, D.C. 20231

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PATENT

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CERTIFICATE OF MAILING UNDER 37 C.F.R. section 1.8(a)

I hereby certify that the attached correspondence comprising:


Power of Attorney by Assignee of Entire Interest (Revocation of Prior Powers); and  
Statement Under 37 C.F.R. section 3.73(b) Establishing Right of Assignee to Take Action;

is being deposited with the United States Postal Service, with sufficient postage, as first class mail in an envelope addressed to:

Assistant Commissioner for Patents  
Washington, D.C. 20231

on

1/28/02

  
Signature of person mailing paper



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POWER OF ATTORNEY BY ASSIGNEE OF ENTIRE INTEREST  
(REVOCATION OF PRIOR POWERS)

As assignee of record of the entire interest of the above identified application,

REVOCATION OF PRIOR POWERS OF ATTORNEY

all powers of attorney previously given are hereby revoked and

NEW POWER OF ATTORNEY

the following practitioners are hereby appointed to prosecute and transact all business in the Patent and Trademark Office connected therewith.

Customer No.: 024283

---

SEND CORRESPONDENCE TO:

DIRECT TELEPHONE CALLS TO:

Customer No.: 024283

James M. Graziano  
303-379-1113

---

**Assignee:**

Ahead Communications Systems, Inc.  
199 Park Road Extension  
Middlebury, CT 06767

Recorded in PTO on 10/03/2001  
Reel/Frame: 012232/0457

**ASSIGNEE STATEMENT**

Attached to this power is a "STATEMENT UNDER 37 C.F.R. section 3.73(b)."

Date:

1/15/2002

  
Signature

Ahead Communications Systems, Inc.  
Assignee  
John Cumberton  
Vice President of Engineering



Practitioner's Docket No. 12372.113 (GDC-136)

PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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Application No.: 09/806,783

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FEB 11 2002  
Technology Center 2100

Assistant Commissioner for Patents  
Washington, D.C. 20231

**STATEMENT UNDER 37 C.F.R. section 3.73(b)  
ESTABLISHING RIGHT OF ASSIGNEE TO TAKE ACTION**

1. The assignee(s) of the entire right, title and interest hereby seek(s) to take action in the PTO in this matter.

**IDENTIFICATION OF ASSIGNEE**

2. Name of assignee: Ahead Communications Systems, Inc.  
Type of assignee: Corporation

**PERSON AUTHORIZED TO SIGN**

3. Name of person authorized to sign on behalf of assignee: John Cumberton  
Title of person authorized to sign: Vice President of Engineering

I, the person signing below, state that I am empowered to sign this statement on behalf of the assignee.

**BASIS OF ASSIGNEE'S INTEREST**

4. Ownership by the assignee is established as follows: A chain of title from General DataComm, Inc. to Ahead Communications Systems, Inc.

**COPIES OF DOCUMENTS IN CHAIN OF TITLE**

5. Copies of the assignment(s) or other document(s) in the chain of title are attached as follows:

Recordation Date: 10/03/2001

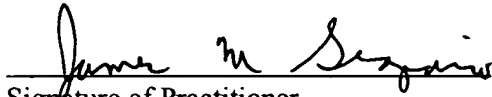
Reel/Frame: 012232/0457

Date: 1/15/2002



Signature of authorized person  
John Cumberton  
Vice President of Engineering  
Ahead Communications Systems, Inc.

Date: 28 JANUARY 2002



Signature of Practitioner

Reg. No.: 28,300  
Tel. No.: 303-379-1113  
Customer No.: 024283

James M. Graziano  
Patton Boggs LLP  
P.O. Box 270930  
Louisville, CO 80027-5015

DECEMBER 19, 2001

PATTON BOGGS LLP  
JAMES M. GRAZIANO  
P.O. BOX 270930  
LOUISVILLE, CO 80027



Under Secretary of Commerce For Intellectual Property and  
Director of the United States Patent and Trademark Office  
Washington, DC 20231  
www.uspto.gov



\*101916257A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 10/03/2001

REEL/FRAME: 012232/0457  
NUMBER OF PAGES: 11

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS)

ASSIGNOR:  
GENERAL DATACOMM, INC.

DOC DATE: 08/08/2001

ASSIGNEE:  
AHEAD COMMUNICATIONS SYSTEMS, INC.  
MIDDLEBURY, CONNECTICUT

SERIAL NUMBER: 09029585  
PATENT NUMBER:

FILING DATE: 02/27/1998  
ISSUE DATE:

SERIAL NUMBER: 09172545  
PATENT NUMBER:

FILING DATE: 10/14/1998  
ISSUE DATE:

SERIAL NUMBER: 60093826  
PATENT NUMBER:

FILING DATE: 07/22/1998  
ISSUE DATE:

SERIAL NUMBER: 09029295  
PATENT NUMBER:

FILING DATE: 03/05/1998  
ISSUE DATE:

SERIAL NUMBER: 60093681  
PATENT NUMBER:

FILING DATE: 07/22/1998  
ISSUE DATE:

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Technology Center 2100

SERIAL NUMBER: 09744323  
PATENT NUMBER:

FILING DATE: 05/29/2001  
ISSUE DATE:

SERIAL NUMBER: 09077219  
PATENT NUMBER: 6327246

FILING DATE: 05/19/1998  
ISSUE DATE: 12/04/2001

SERIAL NUMBER: 09744324  
PATENT NUMBER:

FILING DATE: 03/05/2001  
ISSUE DATE:

SERIAL NUMBER: 09289463  
PATENT NUMBER:

FILING DATE: 04/09/1999  
ISSUE DATE:

SERIAL NUMBER: 09289464  
PATENT NUMBER:

FILING DATE: 04/09/1999  
ISSUE DATE:

SERIAL NUMBER: 09806783  
PATENT NUMBER:

FILING DATE: 05/21/2001  
ISSUE DATE:

SERIAL NUMBER: 09371196  
PATENT NUMBER: 6282191

FILING DATE: 08/10/1999  
ISSUE DATE: 08/28/2001

SERIAL NUMBER: 09636277  
PATENT NUMBER:

FILING DATE: 08/10/2000  
ISSUE DATE:

SERIAL NUMBER: 09408449  
PATENT NUMBER:

FILING DATE: 09/29/1999  
ISSUE DATE:

SERIAL NUMBER: 08147939  
PATENT NUMBER: 5436893

FILING DATE: 11/05/1993  
ISSUE DATE: 07/25/1995

SERIAL NUMBER: 08622897  
PATENT NUMBER: 5949782

FILING DATE: 03/29/1996  
ISSUE DATE: 09/07/1999

SERIAL NUMBER: 08973441  
PATENT NUMBER: 6122253

FILING DATE: 12/04/1997  
ISSUE DATE: 09/19/2000

SERIAL NUMBER: 08532888  
PATENT NUMBER: 5615211

FILING DATE: 09/22/1995  
ISSUE DATE: 03/25/1997

SERIAL NUMBER: 08913815  
PATENT NUMBER: 6044060

FILING DATE: 09/15/1997  
ISSUE DATE: 03/28/2000

SERIAL NUMBER: 08973442  
PATENT NUMBER: 6115358

FILING DATE: 12/04/1997  
ISSUE DATE: 09/05/2000

SERIAL NUMBER: 08526846  
PATENT NUMBER: 5712853

FILING DATE: 09/11/1995  
ISSUE DATE: 01/27/1998

SERIAL NUMBER: 08644308  
PATENT NUMBER: 5841773

FILING DATE: 05/10/1996  
ISSUE DATE: 11/24/1998

SERIAL NUMBER: 08942021  
PATENT NUMBER: 6028840

FILING DATE: 10/01/1997  
ISSUE DATE: 02/22/2000

SERIAL NUMBER: 09015303  
PATENT NUMBER: 6041064

FILING DATE: 01/29/1998  
ISSUE DATE: 03/21/2000

SERIAL NUMBER: 08853654  
PATENT NUMBER: 6141322

FILING DATE: 05/09/1997  
ISSUE DATE: 10/31/2000

SERIAL NUMBER: 08406300  
PATENT NUMBER: 5796956

FILING DATE: 03/17/1995  
ISSUE DATE: 08/18/1998

SERIAL NUMBER: 08675955  
PATENT NUMBER: 5864555

FILING DATE: 07/05/1996  
ISSUE DATE: 01/26/1999

SERIAL NUMBER: 09015302  
PATENT NUMBER: 6088365

FILING DATE: 01/29/1998  
ISSUE DATE: 07/11/2000

SERIAL NUMBER: 08930973  
PATENT NUMBER: 6067286

FILING DATE: 10/07/1997  
ISSUE DATE: 05/23/2000

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SERIAL NUMBER: 08573244  
PATENT NUMBER: 5659540

FILING DATE: 12/15/1995  
ISSUE DATE: 08/19/1997

SERIAL NUMBER: 09015301  
PATENT NUMBER: 6049544

FILING DATE: 01/29/1998  
ISSUE DATE: 04/11/2000

SERIAL NUMBER: 08317336  
PATENT NUMBER: 5461609

FILING DATE: 10/04/1994  
ISSUE DATE: 10/24/1995

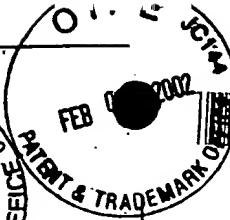
SERIAL NUMBER: 08624812  
PATENT NUMBER: 5781529

FILING DATE: 03/27/1996  
ISSUE DATE: 07/14/1998

JACQUELINE MOORE, PARALEGAL  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



FORM PT-1619A  
Expires 06/30/99  
OMB 0651-0027



12-17-2001

101916257

U.S. Department of Commerce  
Patent and Trademark Office  
**PATENT**

**RECORDATION FORM COVER SHEET  
PATENTS ONLY**

10.3.01

TO: The Commissioner of Patents and Trademarks: Please record the attached original document(s) and copy(ies).

**Submission Type**

- ☒ New
- ☐ Resubmission (Non-Recordation)  
Document ID#
- ☐ Correction of PTO Error  
Reel #  Frame #
- ☐ Corrective Document  
Reel #  Frame #

**Conveyance Type**

- ☒ Assignment ☐ Security Agreement
- ☐ License ☐ Change of Name
- ☐ Merger ☐ Other
- U.S. Government**  
(For Use ONLY by U.S. Government Agencies)
- ☐ Departmental File ☐ Secret File

**Conveying Party(ies)**

☐ Mark if additional names of conveying parties attached

Execution Date  
Month Day Year

Name (line 1) General DataComm, Inc.

08082001

Name (line 2)

**Second Party**

Name (line 1)

Execution Date  
Month Day Year

Name (line 2)

09289464

**Receiving Party**

☐ Mark if additional names of receiving parties attached

Name (line 1) Ahead Communications Systems, Inc.

☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3) Middlebury

CT

City

State/Country

Zip Code

**Domestic Representative Name and Address**

Enter for the first Receiving Party only.

Name John Cumberton

Address (line 1) Ahead Communications Systems, Inc.

Address (line 2)

Address (line 3)

Address (line 4)

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Public burden reporting for this collection of information is estimated to average approximately 30 minutes per Cover Sheet to be recorded, including time for reviewing the document and gathering the data needed to complete the Cover Sheet. Send comments regarding this burden estimate to the U.S. Patent and Trademark Office, Chief Information Officer, Washington, D.C. 20231 and to the Office of Information and Regulatory Affairs, Office of Management and Budget, Paperwork Reduction Project (0651-0027), Washington, D.C. 20503. See OMB Information Collection Budget Package 0651-0027, Patent and Trademark Assignment Practice. DO NOT SEND REQUESTS TO RECORD ASSIGNMENT DOCUMENTS TO THIS ADDRESS.

Mail documents to be recorded with required cover sheet(s) information to:  
Commissioner of Patents and Trademarks, Box Assignments, Washington, D.C. 20231

**Correspondent Name and Address**

Area Code and Telephone Number **(303) 379-1113**

Name **James M. Graziano**

Address (line 1) **Patton Boggs LLP**

Address (line 2) **P.O. Box 270930**

Address (line 3)

Address (line 4) **Louisville, CO 80027**

**Pages**

Enter the total number of pages of the attached conveyance document including any attachments.

# **6**

**Application Number(s) or Patent Number(s)**

☒ MARK IF additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

**Patent Application Number(s)**

**Patent Number(s)**

**09029585** **09029295** **09077219**

**5436893** **5615211** **5712853**

**09172545** **60093681** **09744324**

**5949782** **6044060** **5841773**

**60093826** **09744323** **09289463**

**6122253** **6115358** **6028840**

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

**Patent Cooperation Treaty (PCT)**

Enter PCT application number only if a U.S. Application Number has not been assigned.

PCT  PCT  PCT

PCT  PCT  PCT

**Number of Properties**

Enter the total number of properties involved.

# **33**

**Fee Amount**

Fee Amount for Properties Listed (37 CFR 3.41): \$ **1,320.00**

Method of Payment:

Enclosed ☐

Deposit Account ☒

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

# **50-1848**

Authorization to charge additional fees:

Yes ☒

No ☐

**Statement and Signature**

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

**John Cumberton**

Name of Person Signing



Signature

**9/26/07**

Date

RECORDATION FORM COVER SHEET  
CONTINUATION  
PATENTS ONLY

U.S. Department of Commerce  
Patent and Trademark Office  
PATENT

Conveying Party(ies)

☐ Mark if additional names of conveying parties attached

Enter additional Conveying Parties

Execution Date  
Month Day Year

Name (line 1)

Name (line 2)

Name (line 1)

Name (line 2)

Name (line 1)

Name (line 2)

Execution Date  
Month Day Year

Execution Date  
Month Day Year

Receiving Party(ies)

☐ Mark if additional names of receiving parties attached

Enter additional Receiving Party(ies)

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

Zip Code

Name (line 1)

Name (line 2)

Address (line 1)

Address (line 2)

Address (line 3)

City

State/Country

Zip Code

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☐ If document to be recorded is an assignment and the receiving party is not domiciled in the United States, an appointment of a domestic representative is attached. (Designation must be a separate document from Assignment.)

Application Number(s) or Patent Number(s)

☐ Mark if additional numbers attached

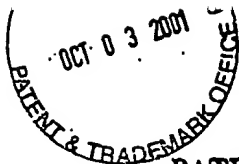
Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

09289464	09371196	09408449
09806783	09636277	

Patent Number(s)

6041064	6088365	6049544
6141322	6067286	5461609
5796956	5659540	5781529
5864555		



## **PATENT/INVENTION ASSIGNMENT AND TRANSFER**

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sums recited in the Asset Purchase Agreement between ASSIGNOR and ASSIGNEE of even date herewith, the receipt of which is hereby acknowledged, and for other good and valuable consideration,

**ASSIGNOR:**

**General DataComm, Inc.  
Middlebury, CT  
A Delaware corporation**

hereby irrevocably sells, conveys, assigns and transfers to

**ASSIGNEE:**

**Ahead Communications Systems, Inc.  
Middlebury, CT  
A Delaware corporation**

and its successors, assigns and legal representatives, the entire rights, title and interests, including all rights, appurtenant thereto, in and to certain Letters Patent and applications therefore and any continuations, continuations-in-part, divisionals, renewals, substitutions, reissues, re-examinations or extensions, thereof (the "Patents") identified in Exhibit 1 attached hereto, for the United States and its territorial possessions and for all countries foreign to the United States, including any and all associated rights, title and interests in and to all invention disclosures, whether or not formally disclosed, in the United States or in any country foreign to the United States, to be obtained for any and all inventions, concepts and ideas ("Inventions") constituting Acquired Assets as defined in the above referenced Asset Purchase Agreement, including all related rights of priority arising from the Patents and/or the Inventions under all treaties, conventions or agreements, and/or all the rights and privileges under any and all forms of United States or foreign protection outside of the United States, and which is commensurate with the full term of the granted patent.

This assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country for proof of right of Assignee to obtain and/or apply for a Patent or other form of protection for the invention and to claim the aforementioned benefit of the right of priority.

ASSIGNOR agrees that ASSIGNOR will execute, without further consideration, such further instruments and documents as are or may be necessary or convenient to effectuate and carry out this assignment and transfer.

ASSIGNOR agrees to the terms recited herein as evidenced by the signature of ASSIGNOR'S duly authorized representative.

Effective Date: August 13, 2001

CP Johnson  
General DataComm, Inc.

United States of America )

State of Connecticut )

County of New Haven )

On this 8th day of August, 2001, the above named individual personally appeared on behalf of the above entity in front of me and is known to be the person who is identified above, and who executed the foregoing assignment instrument and acknowledged to me that CP Johnson executed the same of his own free will for the purpose therein expressed.

Laurie A. Elias Parker  
Notary Public

LAURIE A. ELIAS-PARKER  
NOTARY PUBLIC  
My Commission Expires May 31, 2006

## EXHIBIT 1 TO PATENT ASSIGNMENT

### GDC ATM Patents, Patent Applications, and Patents in Process

Attorney File #	Title	US File Date	US File Serial #	US Patent #	US Patent Date
GDC-111	Synchronizing ATM AAL2 Minicell Generation to Multiple Voice Processing Functions				
GDC-120	SS7 Signalling Gateway Server for Voice Trunking over ATM				
GDC-091	High Speed Switching of Transport Circuits				
GDC-097	Planned Capacity Based Routing for Wide Area ATM Systems				
GDC-098	Load Balancing in ATM Networks				
GDC-088	Priority in ATM Networks				
GDC-126	Voice Transmission Utilizing ATM Protocols				
GDC-086	ATM Network Switch Having Enhanced Call Setup Capability	02/27/98	09/028,585		
GDC-087	ATM Switch with VC Priority Buffers	03/05/98	09/028,285		

Attorney File #	Title	US File Date	US File Serial #	US Patent #	US Patent Date
GDC-088	Controlled Available Bit Rate Service in an ATM Switch	05/19/98	09/077,219		
GDC-118	Hot Insertable UTPIA Interface	10/14/98	09/172,545		
GDC-128	A Dynamic Buffer Management for ATM Switches	provisional 7/22/98 final 1/19/01	60/093681 09/744,324		
GDC-129	An Explicit Rate ABR Algorithm for New Generation of ATM Switches	provisional 7/22/98 final 1/19/99	60/093826 09/744,323		
GDC-130	Method for Mapping Narrowband DSO circuits into AAL type 2 SVC's	04/09/99	09/289,463		
GDC-131	Method & Apparatus for Generation of ATM AAL2 type Broadband Setup Message from Narrowband Setup request	04/09/99	09/289,464		
GDC-132	Transporting Narrowband (voice) Traffic over a Broadband (ATM) Network	08/10/99	09/371,198		
GDC-134	Data Switch	9/29/99	09/408,449		
GDC-135	Bundle Shaping or Policing	09/29/99	PCT/US99/22643		

Attorney File #	Title	US File Date	US File Serial #	US Patent #	US Patent Date
GDC-137	Traffic Shaping Mechanism for Packetized Data in a Digital Network	08/10/00	09/636,277		
GDC-071	Allow Access to ILM Address Registration MIB from Multiple Links and from SNMP Manager				
GDC-073	Route Encapsulation and Recovery of Node Dependent Paths				
GDC-085	Service Specific Convergence Sublayer for Narrowband Packetization & Transport				
GDC-089	Direct Telet Protocol Over SPVCs				
GDC-117	Multicast Connection Label Allocator				
GDC-056	ATM Cell Switch Suitable for Multicast Switching	11/05/93	08/147,939	5,436,883	07/25/95
GDC-057	Data Network Switch	10/04/94	08/317,336	5,461,609	10/24/95
GDC-058	ATM Cell Switch	03/17/95	08/406,300	5,796,956	08/18/98



Attorney File #	Title	US File Date	US File Serial #	US Patent #	US Patent Date
GDC-063	Packet Mode Transfer for Microcell TDM Backplane	08/22/85	08/532,888	5,615,211	03/25/97
GDC-064	Use of OAM Cells across an ATM Frame UNI	09/11/95	08/526,846	5,712,853	01/27/98
GDC-070	User Programmable OAM Loopbacks and Physical Loopback Detection in an ATM Network	12/15/95	08/573,244	5,659,540	08/19/97
GDC-072	Routing ATM Switched Virtual Circuit Calls	03/27/96	08/624,812	5,781,529	07/14/98
GDC-075	"Proxy" Connection End-Points for ATM OAM Functions	07/05/96	08/675,955	5,864,555	01/26/99
GDC-077	Correlation Tag for Billing in ATM	03/29/96	08/622,897	5,949,782	09/07/99
GDC-079	A Traffic Shaping ATM Network Switch	09/15/97	08/913,815	6,044,060	03/28/00
GDC-080	ATM Network Switch with Congestion Level Signaling for Controlling Cell Buffers	05/10/98	08/644,308	5,841,773	11/24/98
GDC-082	ATM Network Switch Congestion Control	12/04/97	08/973,441	6,122,253	08/19/00
GDC-083	Controlling the Flow of ATM Cells in an ATM Network	12/04/97	08/973,442	6,115,358	09/05/00

Attorney File #	Title	US File Date	US File Serial #	US Patent #	US Patent Date
GDC-084	Method & Apparatus for Connection Admission Control of Variable BitRate Traffic in an ATM Switch	10/01/97	08/942,021	8,028,840	02/22/00
GDC-108	Dynamic Data Distribution to/from DSP Array (in VSM)	01/29/98	09/015,303	6,041,064	03/21/00
GDC-109	ATM AAL1 & AAL2 Adaptations Using Per Bearer Channel Selectable Data Patch	01/29/98	09/015,302	6,088,365	07/11/00
GDC-110	Fixed-Rate Serial Data Highway for Conveying Variable Rate Data for ATM AAL2 Processing	01/29/98	09/015,301	6,049,544	04/11/00
GDC-113	Precedence & Preemption in ATM Call Admission Control	05/09/97	08/853,654	6,141,322	10/31/00
GDC-139	Coordinating Multiple Processors (tent)				
GDC-140	Efficient Task Sharing between processors (tent)				
GDC-141	Signalling of an Internal Event in an Array of Processors (tent)				
GDC-142	Large Scale Multi- Environment DSP Array (tent)				

Attorney File #	Title	UK Date	UK Serial #	US File Date	US File Serial #	US Patent #	US Patent Date
	ATM Network Switch (Semi-permanent Virtual Paths & Circuits)	10/20/99	2 308 849				
	Virtual Channel Management	05/11/98	2 337 404				
GDC-136	Network Management Information Processing	10/02/98	2 344 262	03/30/01	09/806,783		
GDC-078	Data Network Switch with Fault Tolerance	03/22/00	2 299 914	10/07/97	08/930,973	6,067,286	05/23/00
GDC-133	Communication Network	02/10/98	2 344 029	09/29/99	PCT/US99/22 653		
	Data Switch Performance Monitoring	10/02/98	2 342 527				